

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

United States of America, COLORADO

Date: Thursday, January 05, 2017

Extraction - MICKEY 7 Surface

Job Date: Friday, December 02, 2016

Sincerely,
Adam McKay

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Mickey 7** cement **Surface** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

25 bbl cement returned to surface.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton [Ft. Lupton]

1.2 Job Summary

The Road to Excellence Starts with Safety

Sold To #: 369404		Ship To #: 3766579		Quote #:		Sales Order #: 0903690509					
Customer: EXTRACTION OIL & GAS -				Customer Rep: SEAN MCINTYRE							
Well Name: MICKEY		Well #: 7		API/UWI #: 05-123-43857-00							
Field: WATTENBERG		City (SAP): WINDSOR		County/Parish: WELD		State: COLORADO					
Legal Description: SW NE-5-6N-67W-2420FNL-1858FEL											
Contractor:				Rig/Platform Name/Num: Spud Rig							
Job BOM: 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199				Srvc Supervisor: John Keane							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST							
Job depth MD		1555ft		Job Depth TVD		1555 FT					
Water Depth				Wk Ht Above Floor		5 FT					
Perforation Depth (MD)		From		To							
Well Data											
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft	
Casing		9.625	8.921	36	8 RD	J-55	0	1555	0	1555	
Open Hole Section			13.5				0	1588	0	1588	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe						Top Plug	9.625	1	HES		
Float Shoe	9.625	1		1555		Bottom Plug					
Float Collar	9.625	1		1512		SSR plug set					
Insert Float						Plug Container	9.625	1	HES		
Stage Tool						Centralizers					
Fluid Data											
Stage/Plug #: 1											
Fluid #	Stage Type	Fluid Name			Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Red Dye Spacer	Red Dye Spacer			20	bbl	8.33				

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	SwiftCem	SWIFTCEM (TM) SYSTEM	525	sack	13.5	1.74		5	9.2
9.20 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Fresh Water	Fresh Water	117	bbl	8.33				
Cement Left In Pipe		Amount	43 ft		Reason			Shoe Joint	
Mix Water:		7.5	Mix Water Chloride:		0 PPM		Mix Water Temperature:		41 °F °C
Cement Temperature:		## °F °C		Plug Displaced by:		8.33lb/gal		Disp. Temperature:	
Plug Bumped?		Yes		Bump Pressure:		505 psi MPa		Floats Held? Yes	
Cement Returns:		25 bbl		Returns Density:		13.5lb/gal		Returns Temperature:	
Comment									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	PS Pump Rate (bbl/min)	DH Density (ppg)	Comments
Event	1	Call Out	Call Out	12/1/2016	14:30:00	USER				REQUESTED ON LOCATION TIME 18:30
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	12/2/2016	17:15:00	USER				WITH HES, 1 F-450, 1 RED TIGER CEMENTING UNIT, 2 660 BULK TRUCKS
Event	3	Arrive At Loc	Arrive At Loc	12/2/2016	18:30:00	USER				RIG RUNNING CASING UPON HES, ARRIVAL
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	12/2/2016	18:35:00	USER				WITH HES, DISCUSSED JOB PROCEDURE WITH COMPANY REP, TESTED WATER (CHLOR 0, PH 7.5, TEMP 42 F), SDS OFFERED FOR ALL HES MATERIALS
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	12/2/2016	19:00:00	USER				WITH HES
Event	6	Rig-Up Equipment	Rig-Up Equipment	12/2/2016	19:30:00	USER				1 LINE RAN TO THE FLOOR, 1 9.625 IN QUICK-LATCH PLUG CONTAINER
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	12/2/2016	21:30:00	USER				WITH HES, EXTRACTION, AND RIG CREW
Event	8	Start Job	Start Job	12/2/2016	21:41:00	USER				TD 1588 FT, TP 1555 FT, CSG 9.625 IN 36 LB/FT J-55, HOLE 13.5 IN, SHOE 43 FT, MWT 9.0 LB/GAL
Event	9	Prime Pumps	Fill Lines	12/2/2016	21:44:00	USER				FRESH WATER, RETURNS AT 1 BBL AWAY
Event	10	Test Lines	Test Lines	12/2/2016	21:53:17	USER	2734.00		8.33	LOW TEST AT 1800 PSI, HIGH TEST AT 2775 PSI, PRESSURE HOLDING
Event	11	Pump Spacer	Pump Fresh Water Spacer	12/2/2016	21:58:57	USER	159.00	4.30	8.36	RED DYE ADDED, RETURNS AT 1 BBL AWAY
Event	12	Pump Cement	Pump Cement	12/2/2016	22:04:58	USER	177.00	4.30	13.50	MIXED AT 13.5 LB/GAL, 525 SKS, 1.74 FT3/SK, 9.2 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	13	Shutdown	Shutdown	12/2/2016	22:27:46	USER				
Event	14	Drop Top Plug	Drop Top Plug	12/2/2016	22:30:23	USER				PLUG LAUNCHED
Event	15	Pump Displacement	Pump Displacement	12/2/2016	22:31:47	USER	22.00	3.60	8.33	FRESH WATER, 116.9 BBL DISPLACEMENT
Event	16	Slow Rate	Slow Rate	12/2/2016	22:47:32	USER	490.00	1.80	8.33	SLOWED AT 106 BBL AWAY

Event	17	Bump Plug	Bump Plug	12/2/2016	22:49:44	USER	505.00	3.20	7.75	PLUG BUMPED AT CALCULATED DISPLACEMENT, 505 PSI
Event	18	Check Floats	Check Floats	12/2/2016	22:52:45	USER				FLOATS HOLDING, 1 BBL RETURNED TO THE TRUCK
Event	19	End Job	End Job	12/2/2016	22:55:00	USER				GOOD CIRCULATION, PIPE WAS STATIC, 25 BBL CEMENT CIRCULATED TO SURFACE, NO ADD HOURS, RIG DID NOT USE SUGAR, 1 9.625 IN QUICK-LATCH PLUG CONTAINER LEFT ON LOCATION
Event	20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	12/2/2016	23:00:00	USER				WITH HES
Event	21	Rig Down Lines	Rig Down Lines	12/2/2016	23:10:00	USER				
Event	22	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	12/2/2016	23:40:00	USER				WITH HES
Event	23	Crew Leave Location	Crew Leave Location	12/2/2016	23:50:00	USER				THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

3.0 Attachments

3.1 9.625 IN. SURFACE CASING-Custom Results.png



